

L 29136-65

ACCESSION NR: AP5005895

of 1-n  $\text{H}_2\text{SO}_4$  and 1-n KOH. The charge curves were made for a current density of  $0.25 \text{ ma/cm}^2$  at 20 and  $97^\circ\text{C}$ . The voltage was found to be time dependent. In both observed solutions the charge curves at  $20^\circ\text{C}$  showed well-defined delays in the region of 500-700 mv, corresponding to oxidation of chemisorbed ethylene and ethane. A delay for adsorption of hydrogen was also observed. The curves for  $97^\circ\text{C}$  were different, as only a faint delay was recorded at 650-800 mv, corresponding to oxidation of organic compounds. A delay was also observed for hydrogen adsorption. Dehydration was well defined (large quantities of hydrogen on the electrode) for both ethane and ethylene in both acid and alkaline solutions. When the Pt electrode was heated for a longer time, adsorption declined because of the formation of methane. The Pt surface altered during the experiment, indicating its capacity to adsorb hydrogen. Ethylene chemisorbed on less active parts of the surface was not completely oxidized at  $20^\circ\text{C}$ . It thus became possible to determine the approximate surface occupied by hydrocarbon and that occupied by hydrogen. It was found that the maximal surface covering at  $97^\circ\text{C}$  took place with chemisorption of ethylene in 1-n  $\text{H}_2\text{SO}_4$ . In experiments with ethane at  $20^\circ\text{C}$  and oxidation at  $97^\circ\text{C}$ , the surface was 50% covered chiefly by hydrogen in 1-n  $\text{H}_2\text{SO}_4$  and 1-n KOH, but with ethylene the surface was 90% covered. It is concluded that at low current densities and negative voltages, dehydration represents the first stage of the oxidation process.

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ACCESSION NR: AP5005895

"We express our thanks to Academician A. N. Frumkin for discussing with us the results of this work." Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Institut elektrokhemii Akademii nauk SSSR (Institute of Electrochemistry, Academy of Sciences SSSR)

SUBMITTED: 08Jul64

ENCL: 00

SUB CODE: ac, *lc*

NO REF SOV: 003

OTHER: 011

Card 3/3

PSHENICHNIKOV, A. M.

"A Thermo-Electrical Power Transmission Element" from the book Remote Control  
of Power Systems, published by the AS USSR, 1954.

PSHENICHNIKOV, A. M.

Registering  
"Telemetric and ~~Regulating~~ Instruments with Magnetic Modulators as  
Neutral Devices" (Teleizmeritel'nyye i registriruyushchiye pribory s  
magnitnymi modulyatorami v kachestve nul'-organov) from the book  
Telemechanization in the National Economy, pp. 293-309, Iz. AN SSSR,  
Moscow, 1956

(Given at meeting held in Moscow 29 Nov to 4 Dec 54 by Inst. of Automatics  
and Telemechanics)

*PSHENICHNIKOV, A.M.*

621.318.435.3 : 621.317.083.7

✓ 3439. USE OF MAGNETIC ZERO-ELEMENTS IN TELE-  
METERING AND RECORDING INSTALLATIONS.  
A.M. Pshenichnikov.

*elec Eng*  
Elektrichestvo, 1956, No. 1, 55-60. In Russian.  
In telemetering and recording installations the most suitable type of d.c.-a.c. converters is the magnetic amplifier. For the subsequent amplification electronic amplifiers are preferable. Such combinations of magnetic and electronic amplifiers enable the time constant to be substantially reduced by comparison with multi-stage magnetic amplifiers and the

precision of the apparatus to be considerably increased. The magnetic zero-elements may be assembled in any type of full-wave circuit (transformer, differential or bridge circuit) or in a circuit using the even flux harmonics for simultaneous d.c. and a.c. pre-magnetization of the ferromagnetic material. The bridge circuit is most commonly used. It has a lower threshold of sensitivity of  $10^{-14}$  -  $10^{-15}$  V, as against only  $10^{-13}$  -  $10^{-14}$  V for the transformer circuit. Use of magnetic zero-elements operating on the second harmonic of the flux can only be recommended if the circuit is supplied at a frequency higher than 50 c/s, since at that frequency the amplification factor is considerably reduced. The various circuits developed are described and their main applications given.

B.F. Kraus

*of*

*slmd ok*

PSHENICHNIKOV, A.M.

119-6-11/16

AUTHOR:

Pshenichnikov, A. M.

TITLE:

Information (Informatsiya).  
A Repeater Equipment of the Frequency-Impulse System for  
Remote Measurement  $\text{ЧМ C-1-A}$   
(Peredayushcheye ustroystvo chastotno - impul'snoy sistemy  
teleizmereniya  $\text{ЧМ C-1-A}$ ).

PERIODICAL: Priborostroyeniye, 1957, Nr 12, pp. 27-27 (USSR)

ABSTRACT:

The contactless static repeater-equipment worked out by TsLEM Mosenergo permits to transform direct current into impulse-frequency which is in linear dependence on the current intensity. Current which is either only proportional to the test value or also to the feed-voltage (e. g., transmitter-current of an inductive rectification system) is supplied to the inlet of the equipment (see figure). The minimum current-measuring-value amounts to 0,15 mA when the inlet-resistance is 200  $\Omega$ . The operation of this equipment is described, a magnetic modulator, an electronic amplifier (the left half of the tube  $6\text{H}9\text{C}$ ) and a multi-vibrator (the tube  $6\text{H}8\text{C}$ ) being mentioned. Two transformers  $T_1$  and  $T_2$  are connected in the anode-circuit of the multi-

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Information. A Repeater Equipment of the Frequency-Impulse 119-6-11/16  
System for Remote Measurement **УНЧ-1-А**

vibrator. If the current to be measured shall not be dependent on the supply-voltage, the transformers are equipped with cores of permalloy and operate in a saturated regime. If, however, the measuring current shall depend on the supply-voltage, the transformers are made with cores of ordinary transformer-steel. When high-frequency contacts of the type **ИМР/П**-400 are used, an alternating voltage must be supplied to the inlet of contacts. Finally some examples from the practice of these devices are given, where their total error does not exceed 1,5 %. At present works are performed, in order to replace the electron-tubes by semiconductor-triodes.  
There is 1 figure.

AVAILABLE: Library of Congress

Card 2/2

PSHENICHNIKOV, A.M. (Moskva)

Dependence of zero displacement of magnetic zero elements on  
variations of supply voltage. Avtom. 1 telem 18 no.1:78-80  
Ja '57. (MIRA 10:3)  
(Telemetering) (Recording instruments)



PA - 3230

AUTHOR  
TITLE

PSHENICHNIKOV A.M. (Moscow)  
Static Transfer Device of a Pulse-Frequency Telemetering  
System. (Sticheskoye peredayushcheye ustroystvo chastotno-  
impul'snoy sistemy teleizmereniya.- Russian)  
Avtomatika i Telemekhanika 1957, Vol 18, Nr 5, 444-448  
(USSR)

PERIODICAL

Reviewed: 7/1957

ABSTRACT

Received: 6/1957  
The paper under review represents a short description of a  
device constructed in the TsLEM (Central Laboratory and  
Experimental Workshops) of the Mosenergo (Moscow Energy  
System), together with a comparison of this new device with  
the modern instruments of the frequency system for telemeter-  
ing. The distant transmission can take place in two ways:

- (1) transmission on the connecting line of the impulses of  
alternating polarity, and
- (2) transmission by impulses of the sound frequency. The  
nominal frequency of the device amounts to 10 Hz. Therefore  
it is possible to telemeter also small values of the  
magnitude measured. The frequency band is relatively narrow,  
a circumstance which, if the necessary filters are available  
increases the freedom from perturbations as compared to the  
frequency systems, and which, in a number of cases, permits  
the use of additional channels. Uninterrupted operation of the

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PSHENICHNIKOV, A. M.

A. M. Pshenichnikov - "Device for Converting a DC Voltage into an Alternating Pulse Voltage of Proportionate Frequency."

Authors' Certificates, Elektrosvyaz', 1958, No. 7, pp 77.

80899

S/103/60/021/04/06/007  
B014/B014

13.4000

AUTHOR: Pshenichnikov, A. M. (Moscow)

TITLE: Choice of the Frequency Range for Industrial Telemeters of a Pulse-frequency System

PERIODICAL: Avtomatika i telemekhanika, 1960, Vol. 21, No. 4, pp. 525-529

TEXT: The most favorable frequency range of the above-mentioned systems can be found only if the dependence of the error in measurement upon the frequency range, the noise immunity of signal transmission, the effect of the hum voltage of the power line, the dynamics of the indicator, the quick operation of the system, and the band width of the secondary channel are taken into account. The dependence of the error on the ratio  $f_o/f_n$  (where  $f_o$  = frequency of zero indication of the instrument,  $f_n$  = rated frequency of the parameter to be measured) is graphically shown in Fig. 1. It follows from this that the error diminishes with decreasing  $f_o/f_n$ . The noise immunity is analyzed with the help of a theory

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Choice of the Frequency Range for Industrial  
Telemeters of a Pulse-frequency System

S/103/60/021/04/06/007  
B014/B014

established by V. A. Kashirin and G. A. Shastova (Ref. 2). A comparison is made between the noise immunity in frequency modulation and phase-pulse modulation at a constant reciprocal value of the pulse duty factor. It may be seen that the use of filters in the latter case secures the transmission of the first and third harmonics, and that the root mean square error of the fluctuation noise is smaller than in the former case. Formulas (10) and (11), which have been derived by N. V. Pozin, are given for the calculation of the mean error and the root mean square error. The values obtained from (10) and (11) for telemeters of TsLEM Mosenergo, IAT AS USSR, and TsNIIKA with different filters are listed in Table 1. Further, the author studies the dynamics of the indicator, the quick operation of the system, and the band width of the secondary channel. In conclusion, it is noted that the demands made on the accuracy of transformation of d-c current into a-c current of a certain frequency, or vice versa, are reduced with decreasing  $f_0/f_n$ .

The root mean square error and the time of conversion in the reproduction of digits are diminished by an extension of the frequency range  $f_n - f_0$ . The highest frequency of teletransmission for frequency-pulse ✓

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Choice of the Frequency Range for Industrial  
Telemeters of a Pulse-frequency System

S/103/60/021/04/06/007  
B014/B014

modulation is 20 cps, and the lowest is 4-5 cps. There are 1 figure,  
1 table, and 3 Soviet references.

SUBMITTED: November 17, 1959

Card 3/3

. PSHENICHNIKOV, A. M.

Cand Tech Sci - (diss) "Frequency-impulse converters in industrial telemeasuring systems." Moscow, 1961. 20 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Lenin Power Inst); 150 copies; free; bibliography on pp 19-20 (14 entries); (KL, 6-61 sup, 224)



S/115/60/000/010/020/028  
B021/B058

AUTHORS: Malov, V. S., Pshenichnikov, A. M., Kupershmidt, Ya. A.

TITLE: "Industrial Telemetric Systems and Digital Technology"

PERIODICAL: Izmeritel'naya tekhnika, 1960, No. 10, p. 61 ✓

TEXT: The classification of telemetric systems is listed according to the following distinguishing characteristics: 1) transmission distance and type of transmission channel; 2) structure of the telemetering system; 3) type of the telemetric parameters; 4) service life. The possibility and expediency of standardizing telemetric systems and applying blocks for their construction is shown. The use of the digital technique in telemetric systems is pointed out as being promising. Examples of systems with digital reproduction are mentioned: with transmission of coded and analogy signals.

Card 1/1



KUPERSHMIT, Yakov Abramovich; MALOV, Vladimir Sergeyevich;  
PSHENICHNIKOV, Aleksandr Matveyevich; ZHUKHOVITSKIY, B.Ya.,  
red.; SHIROKOVA, M.M., tekhn. red.

[Present-day telemetering systems] Sovremennye teleizmeritel'-  
nye sistemy. Moskva, Gos. energ. izd-vo, 1961. 86 p. (Biblio-  
teka po avtomatike, no.44) (MIRA 15:3)  
(Telemetering)

MALOV, V. S.; PSHENICHNIKOV, A. M.; KUPERSHMLDT, Ya. A.

"Multi-channel devices for transmission of measurement information by communication lines and for its reproduction in digital form."

report submitted for the 3rd Intl Measurement Conf & 6th Intl Instruments & Measurements Conf, Stockholm, 14-19 Sep 64.

MALOV, V. S.; KUPERSHMIDT, Ya. A.; PSHENICHNIKOV, A. M.

"Multi-channel devices for transmission of measurement information by communication lines and for its reproduction in digital form."

report submitted for Intl Fed of Automatic Control & of Information Processing Conf, Stockholm, 21-23 Sep 64.

L 37660-66 EWP(k)/EWT(d)/EWP(h) EWP(l) EWP(v) BC/GD

ACC NR: AT6012354

SOURCE CODE: UR/0000/66/000/000/0190/0201

AUTHOR: Gurevich, I. M.; Obolenskiy, V. N.; Portnov, M. L.;  
Pshenichnikov, A. M.; Khvoles, V. A.

ORG: none

TITLE: Complex tele-information system for industrial plants

SOURCE: Nauchno-tekhnicheskaya konferentsiya po sredstvam promyshlennoy telemekhaniki. Moscow, 1963. Promyshlennaya telemekhanika (Industrial telemechanics); materialy konferentsii. Moscow, Izd-vo Energiya, 1966, 190-201

TOPIC TAGS: remote control system, supervisory control system, industrial automation

ABSTRACT: Developed by the Central Scientific Research Institute of Complex Automation (TsNIIKA), a system for transmission of discrete and continuous information over a distance up to 20 km is briefly described. The system is intended for connecting individual automatic machines and plants with their control computers and also with the dispatcher's desk; it is designed for a chemical combine whose

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ACC NR: AT6012354

individual parts are scattered over an area. The system includes the equipment for transmission and reception of information, for data processing, insertion into and withdrawal from the computers; the central dispatcher's station equipment includes digital display panels, scaling devices, parameter-deviation signaling devices and recorders, and integral-parameter and statistical-data recorders. Block diagrams of principal parts of the system are explained. Orig. art. has: 6 figures.

SUB CODE: . 09,13/SUBM DATE: 08Jan66

Card 2/2

ACC NR: AP7004251 (A) SOURCE CODE: UR/0106/67/000/001/0058/0066

AUTHOR: Pankratova, O. I.; Pshenichnikov, A. P.

ORG: none

TITLE: Results of an analysis of the daily average traffic flow distribution over the Moscow City telephone network

SOURCE: Elektrosvyaz', no. 1, 1967, 58-66

TOPIC TAGS: telephone system, telephone network, telephone exchange, telephone traffic, telephone ~~traffic flow~~ *administration*

ABSTRACT: The results of an analysis of the intraexchange intramain exchange and interexchange traffic over the Moscow City telephone network from 1946 to 1963 are presented. The concepts of the coefficient of intraexchange communication and the standardized factor of range between the subscriber and exchange equipment are used to determine the principles governing changes in traffic flow during the development of the network. Some considerations are offered leading

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UDC: 621.395.31

ACC NR: AP7004251

to future planning of traffic flow. The authors thank Ye. V. Markhay and G. B. Metel'skiy for their help. Orig. art. has: 7 figures and 4 formulas. [Author's abstract]

[NT]

SUB CODE: 17<sup>05</sup>/SUBM DATE: 03Jun66/ORIG REF: 004/

Card 2/2

PSHENICHNIKOV, A.V.

The progressive work methods of section supervisor I.V. Bessonov should be communicated to all personnel on the lines. Vest.sviazi 15 no.8:16-17 Ag'55. (MLRA 8:12)

1. Nachal'nik Yuzhno-Sakhalinskogo lineyno-tekhnicheskogo uzla (Electric lines)



PSHENICHNOV, A.V.; RUBINA, T.A.; SATANOVSKAYA, F.Ya.

"Textbook on medical microbiology" by M.N. Lebedeva. Reviewed by  
A.V. Pshenichnov, T.A. Rubina, F.I.A. Satanovskaia. Zhur. mikrobiol.  
epid. i immun. 32 no.5:130-132 My '61. (MIRA 14:6)  
(MEDICAL MICROBIOLOGY) (LEBEDEVA, M.N.)

Pshenichnikov, B.V.

RMZ

*the* *Sci* Determination of the relative probabilities of  $\alpha$ -capture  
and  $\beta$ -decay, A. A. Bashilov, N. M. Anton'eva, and  
B. V. Pshenichnikov, *Bull. Acad. Sci. U.S.S.R., Phys.*  
Ser. 20, 619-23 (1956) (English translation).—See C.A. 50,  
1431 (54). B. M. P.

RMZ carb

✓ 776  
 STUDIES OF K-CAPTURE AND  $\beta^-$ -DECAY PROBABILITIES. A. A. Bashilov, N. M. Anton'eva, and B. V. Pshe-  
 nichnikov (Zhdanov Leningrad State Univ.). Izvest. Akad. Nauk S.S.S.R. Ser. Fiz. 20, 149-53 (1956) Mar. (In Russian)  
 Probabilities of K capture and  $\beta^-$  decay in nuclei with triplet isobars, where the middle isobar is expected to decay into the two end ones, are discussed. For the case of

$Os^{182} - Ir^{182} - Pt^{182}$ , the probability ratio of  $Ir^{182}$  conversion into  $Os^{182}$  (K capture) and into  $Pt^{182}$  ( $\beta^-$  decay) was shown to be  $K/\beta^- \sim 0.04$ . Investigations of K capture for  $Au^{198}$  and other isobars, and the relative probability of K capture as compared to  $\beta^-$  decay were made by studying the x-ray photoelectrons produced by K capture in  $\gamma$ -ray conversion during  $\beta^-$  decay. The photoelectron spectrum was studied in a magnetic spectrometer, and the  $X_K/X_\beta$  intensity ratio of X-ray K series in K capture and  $\beta^-$  decay probability for  $Ir^{192}$  was found to be  $K/\beta^- = 4.5 \pm 1.0\%$ , and the upper limit for K capture probability for  $Au^{198}$  was less than 0.01% ( $K/\beta^- < 1.10^{-4}$ ). (R.V.J.)

SOV/56-35-2-53/60

21(7)

AUTHORS: Filimonov, Yu. I., Pshenichnikov, B. V.

TITLE: The Lower Excited States of the Nucleus  $\text{Th}^{231}$  (Nizhriye  
vozbuzhdennyye sostoyaniya yadra  $\text{Th}^{231}$ )

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,  
Vol 35, Nr 2(8), pp 548-549 (USSR)

ABSTRACT: In the  $\alpha$ -decay of  $\text{U}^{235}$ , a noticeable part of the  $\text{Th}^{231}$  nuclei  
is generated in excited states. This paper investigates the  
spectrum of the  $\gamma$ -rays of  $\text{Th}^{231}$  by means of a scintillation  
spectrometer with a  $\text{NaJ(Tl)}$  crystal. This apparatus recorded  
the  $\gamma$ -quanta in coincidence with the  $\alpha$ -particles of  $\text{U}^{235}$ .  
The spectrum obtained in this way is demonstrated in a  
figure. The most intensive line of the spectrum corresponds  
to 184 keV  $\gamma$ -quanta. The intensity of the 144 keV line  
amounts to 25 - 30 % of the intensity of the 184 keV line.  
In the spectral region 110-70 keV there are some unresolved  
lines. There may be also lines which correspond to the  
 $\gamma$ -transitions in the  $\text{Th}^{231}$  nucleus. The line 40 keV corresponds  
to the  $\gamma$ -transition in the  $\alpha$ -decay of the isotope  $\text{U}^{234}$  (which

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The Lower Excited States of the Nucleus  $\text{Th}^{231}$

SOV/56-35-2-53/60

occurs in the specimen). But it is also possible that there is a transition with a similar energy in the  $\text{U}^{235}$  decay. The control experiments with sources of various thickness showed that the 144 keV  $\gamma$ -quanta cannot be generated by the backward scattered  $\gamma$ -rays of 184-200 keV. It must be assumed that these quanta are emitted by a  $\text{Th}^{231}$  nucleus in the transition from the excited level 184 keV to the excited level 40 keV which may be considered as the first excited level of the rotation band. According to the scheme by Nil'son, the spin of the ground state of the  $\text{Th}^{231}$  nucleus is equal to  $5/2$ . In this case, the second excited level of the rotation band would have the energy  $\sim 93$  keV and the spin  $9/2$ . The intensity of the unresolved lines in the spectral region 70 - 110 keV amounts to  $\sim 40\%$  of the intensity of the 184 keV line. The transitions with 134 and 144 MeV can be characterized only by E1 and E1 + M2. Finally an expression for the distribution function is given. The authors thank Professor L. I. Rusinov for his constant interest in this paper. There are 2 figures and 3 references, 1 of which is Soviet.

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The Lower Excited States of the Nucleus Th<sup>231</sup>

SOV/56-35-2-53/60

ASSOCIATION: Leningradskiy fiziko-tekhnicheskoy institut Akademii nauk  
SSSR  
(Leningrad Physico-Technical Institute, AS USSR)

SUBMITTED: May 26, 1958

Card 3/3

PSHENICHNIKOV, G.I. (Moskva)

Natural vibration of a reticulate cylindrical shallow shell.  
Inzh.zhur. 2 no.2:373-376 '62. (MIRA 15:6)

1. Institut mekhaniki AN SSSR.  
(Elastic plates and shells--Vibration)

PSCHENICHNIKOV, I.V.; PECHATNIKOVA, Ye.A.

Preoperative determination of the length of the mobilized intestine necessary for the creation of a transpleural artificial esophagus. Eksper. khir. i anest. no.1:36-39'63.  
(MIRA 16:10)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. deystvitel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR.  
(ESOPHAGUS—SURGERY) (INTESTINE)  
(SURGERY, PLASTIC)



PSHENICHNIKOV, I.V.

Study of the blood supply of the small intestine as related to  
esophagoplasty. Eksper. khir. 5 no.4:13-19 Je-Ag '60.

(MIRA 13:12)

(INTESTINES—BLOOD SUPPLY)

(ESOPHAGUS—SURGERY)

PSHENICHNIKOV, L.A.

Remote control of mine fans in the Berezovskiy mine. Gor. zhur.  
no.3:75 Mr '57. (MLRA 10:4)

1. Mekhanik shakhty Berezovskogo rudnika.  
(Berezovskiy (Sverdlovsk Province)--Gold mines and mining)  
(Fans, Electric) (Remote control)

PSHENICHNIKOV, L.A., elektromekhanik.

Electromechanical blocking of grids in shafts with hoists.  
Bezop.truda v prom. 1 no.7:35 J1 '57. (MLRA 10:7)  
(Hoisting machinery—Safety measures)

ROZHKOV, A.S.; PSHENICHNIKOV, L.N.

Nesting of some birds in the region of Lake Gusinoye (Transbaikalia)  
Trudy Vost.-Sib.fil.AN SSSR no.23:89-99 '60. (MIRA 14:6)  
(Gusinoye Lake region. Birds—Eggs and nests)

PSHENICHNIKOV, M.S., hand.tekhn.nauk

Testing a bridge overpass. Avt.dor. 25 no.5:19-22 Ky '62. (MIRA 15:6)  
(Bridges, Concrete)

POPYRIN, L.S., kand. tekhn. nauk; KARPOV, V.G., inzh.; PSHENICHNOV, N.N.;  
VOYTSEKHOVSKAYA, G.V.

Use of digital computers in the choice of optimum finite  
parameters of large condensing turbine systems. Teploenergetika  
10 no.12:26-33 D '63. (MIRA 17:8)

1. Energeticheskiy institut Sibirskogo otdeleniya AN SSSR.

POPYRIN, L.S., kand. tekhn. nauk; PSHENICHNOV, N.N., inzh.

Determination of the optimum values of finite parameters and their characteristics of the condensing system of the K-500-240 hydraulic turbine-generator unit using electronic computers. Elek. sta. 35  
no.8:21-27 Ag '64. (MIRA 17:12)

POHODNICHNOV, R.A.; BUTKOVA, R.A.

A possibility of the co-existence of phages with <sup>1</sup>pes  
of Rickettsia. (preliminary communication). Vopr. virus 9 no.4:  
194-177 1969

1. Riketskogo laboratoriya Betskogo nauchno-issledovatel'-  
skogo instituta vaktsin i syvorotok.



PSHENICHNIKOV, S., kand. tekhn. nauk; LAPININ, A., inzh.; RUTGERS, P., inzh.

Investigating reinforced concrete span structures with water-  
proof joints assembled by sections. Avt. dor. no.10:28-29  
0 '64. (MIRA 17:12)

SEREGIN, Ivan Nazarovich; ~~PSHENICHNIKOV, Sergey Nikolayevich; ANUFRIYEV,~~  
Viktor Ivanovich; ~~BYCHENKOV, Yuriy Dmitriyevich; ROMAS, Ye.V.,~~  
red.; DONSKAYA, G.D., tekhn.red.

[Technology of building prestressed reinforced concrete bridges]  
Tekhnologiya postroiки predvaritel'no napriazhennykh zhelezo-  
betonnykh mostov; posobie masteru. Moskva, Nauchno-tekhn.isd-vo  
M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1960. 171 p.  
(MIRA 14:4)

(Bridges, Concrete)

PSHENICHNIKOV, Sergey Nikolaevich, nauchnyy sotrudnik; KOSTYAKOV, B.A.,  
redaktor; MAL'KOVA, N.V., tekhnicheskiiy redaktor

[Reinforced concrete bridge spans placed on suspended structures  
made of fitted blocks] Zhelezobetonnye proletnye stroeniia,  
sobiraemye navesnym sposobom iz zaranee izgotovlennykh blokov.  
Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1956. 49 p.  
(Bridges, Concrete) (MIRA 9:9)

PSHENICHNIKOV, S.N.

PSHENICHNIKOV, S.N., inzhener.

Results of observing operations of four-link pipes. Avt.dor. 20  
no.9(179):23-24 S '57. (MIRA 10:10)

(Culverts)

PSHENICHNIKOV, Sergey Nikolayevich, kand. tekhn. nauk; ROYER, Ye.N.,  
red.; GALAKTIONOVA, Ye.N., tekhn. red.

[Method of assembling reinforced concrete bridges from  
mounted units] Navesnoi sposob montazha zhelezobetonnykh  
mostov. Moskva, Avtotransizdat, 1962. 78 p. (MIRA 16:6)  
(Bridges, Concrete—Design and construction)

PSHENICHNIKOV, S.N., inzh.

Using the suspension mehtod. Avt.dor. 23 no.3:7-9 Mr '60.  
(MIRA 13:6)

(Bridges, Concrete)

PSHENICHNIKOV, S. N.

Cand Tec Sci, Diss -- "Bridges of prestressed concrete assembled by the suspension method". Moscow, 1961. 19 pp with drawings, 21 cm (Min of Higher and Inter Spec Educ RSFSR. Moscow Auto and Highway Inst), Not for sale (KL, No 9, 1961, p 184, No 24364). [61-54878]

PSHENICHNIKOV, S.T.

PSHENICHNIKOV, S.T. (Novosibirsk, Voennoy gorodok, korpus 269, kv.2)

Primary skin grafting for injuries of the hand and fingers in out-patients. Nov.khir.arkh. no.2:37-41 Mr-Apr '57. (MLRA 10:8)

1. Novosibirskiy nauchno-issledovatel'skiy institut vosstanovitel'-noy khirurgii i ortopedii  
(FINGERS--WOUNDS AND INJURIES) (SKIN GRAFTING)



PSHENICHNIKOV, V.G.

Keeping calves in good health. Veterinariia 40 no.4:66  
Ap '63. (MIRA 17:1)

1. Glavnyy veterinarnyy vrach sovkhoza imeni XXII S"yezda  
Kommunisticheskoy partii Sovetskogo Soyuz, Moskovskoy  
oblasti.

SERGEYEVA, T.Ya.; PUSHKAREVA, V.I.; MALAKHOVA, T.I.; VEL'YAMINOV, K.S.;  
PSHENICHNIKOV, V.G.

Propomycelin, a new vitamin-antibiotic preparation.  
Veterinariia 38 no.9:66-68 S '61. (MIRA 16:8)

1. Nauchno-proizvodstvennaya laboratoriya po bor'be s  
boleznyami molodnyaka sel'skokhozyaystvennykh zhivotnykh  
Ministerstva sel'skogo khozyaystva RSFSR (for all except  
Pshenichnikov). 2. Glavnyy veterinarnyy vrach sovkhoza  
imeni Stalina, Moskovskoy oblasti (for Pshenichnikov).

PSHENICHNIKOV, V. G., MALAKHOVA, T. I., PUSHKAREVA, V. I., and SERGEYeva, T. YA.  
(Chief Veterinary Surgeon of the State Farm imeni Stalin, Moscow Oblast';  
Scientific-Production for the Control of Diseases of the Young livestock, of  
the Ministry of Agriculture, RSFSR, Scientific-Production Laboratory for the Con-  
trol of Diseases of the Young Livestock, of the Ministry of Agriculture, RSFSR,  
Scientific-Production Laboratory for the Control of Diseases of the Young Live-  
stock, of the Ministry of Agriculture, RSFSR)

The new vitamin and antibiotic preparation of propomy cellin.

Veterinariya vol. 38, no. 9, September 1961, pp. 66.

PSHENICHNIKOV, V.I.; PROKOPENKO, V.G.

Significance of Pavlov's physiology in surgery of the gastro-intestinal  
tract. Vest. khir. 71 no.2:68 1951. (CML 20:8)

PSHENICHNIKOV, V.I., professor.

Diagnosis and therapy of acute intestinal obstruction. Khirurgiia  
no.12:10-15 D '53. (MLRA 7:1)

1. Iz Instituta khirurgii im. A.V.Vishnevskogo (direktor -  
chlen-korrespondent Akademii meditsinskikh nauk SSSR professor  
A.A.Vishnevskiy) Akademii meditsinskikh nauk SSSR.  
(Intestines--Obstructions)

PROKOPENKO, V.G.

PROKOPENKO, V.G., kandidat meditsinskikh nauk; PSHENICHNIKOV, V.I.,  
professor

Significance of physiological teachings of I.P.Pavlov in gastro-  
intestinal surgery. Trudy AMN SSSR 24 no.2:17-24 '53. (MLRA 7:7)  
(GASTROINTESTINAL SYSTEM, surgery,  
\*physiol. aspects)

*PSHENICHNYI, P.D.*  
DMITROCHENKO, A.P., prof., red.; ~~PSHENICHNYI, P.D.~~ prof., red.;  
BOLOGOV, G.N., red.; CHUNAYEVA, Z.V., tekhn.red.

[Raising young farm animals; a collection of scientific papers]  
Vyrashchivanie molodniaka sel'skokhoziaistvennykh shivotnykh;  
sbornik nauchnykh rabot. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957.  
414 p. (MIRA 10:12)

(Stock and stockbreeding)

PSHENICHNYY, V.D., kand. tekhn. nauk

Optimal nozzle output angle of an active single-crown stage  
with small capacity. Energomashinostroenie 10 no.2:6-10  
F '64. (MIRA 17:6)



PSHENICHNIKOV, V.I.

[Trophic ulcers of the extremities and their treatment] Troficheskie  
iazvy konechnostei i ikh lechenie. Moskva, Medgiz, 1954. 85 p.  
(Extremities (Anatomy)--Ulcers) (MLRA 7:11)

100-100000 / 100  
KOYFMAN, U.G., inzhener; PSHENICHNYY, V.D., inzhener.

~~100-100000 / 100~~  
Camber and stress in welded diaphragms with blade of small  
width. Energomashinostroenie 3 no.9:30-34 S '57. (MIRA 10:10)  
(Turbines)

PSHENICHNIKOV, V.I., professor (Moskva)

A.V. Vishnevskii's method of local anesthesia in thoracic surgery. Vest. khir. 76 no.11:6-9 '55 (MLRA 9:4)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo AMN SSSR (dir.- professor A.A. Vishnevskiy)

(THORAX, surg.

anesth., local after Vishnevskii)

(LOCAL ANESTHESIA,

in thoracic surg., Vishnevskii anesth.)

PSHENICHNIKOV, V.I., professor

A.V.Vishnevskii's local anesthesia in repeated surgery of the stomach.  
[with summary in English, p.159] Vest.khir. 77 no.4:37-40 Ap '56.  
(MLRA 9:8)

1. Iz Instituta khirurgii im. A.V.Vishnevskogo AMN SSSR (dir.-prof.  
A.A.Vishnevskiy). Moskva, D-80, ul. Levitana, d.2, dorp. 4, kv.42.  
(PEPTIC ULCER, .surg.

repeated, local anesth. after A.V.Vishnevskii)

(ANESTHESIA, LOCAL

in repeated surg. of peptic ulcer after A.V.Vishnevskii)

AR'YEV, T.Ya., prof.(Leningrad); BABCHIN, I.S., prof.(Leningrad);  
 VAYNSHTEYN, V.G., prof. (Leningrad); GORODETSKIY, Ye.M.,  
 kand. med. nauk (Moskva); GRATSIAINSKIY, V.P., prof.  
 (Leningrad); KORNEV, P.G., prof.(Leningrad); KAPLAN, A.V., prof.  
 (Moskva); LEVIT, V.S., zasl. deyatel' nauki, prof.[deceased];  
 PSHENICHNIKOV, V.I., prof.(Moskva); RUFANOV, I.G., prof.  
 (Moskva); SITENKO, V.M., prof.(Leningrad); SMIRNOV, Ye.V., prof.  
 (Leningrad); FRIDLAND, M.O., zasl. deyatel' nauki, prof.(Moskva);  
 SHEYNIS, V.N., doktor med. nauk, (Leningrad); SHLAPOBERSKIY,  
 V.Ya., prof.(Moskva); VISHNEVSKIY, A.A., prof., red.; GOL'DGAMMER,  
 K.K., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Specialized surgery] Chastnaya khirurgiia; rukovodstvo dlia vra-  
 chei v trekh tomakh. Pod red. A.A. Vishnevskogo i V.S. Levita.  
 Moskva, Medgiz. Vol.3. [The extremities] Konechnosti. 1963. 670 p.  
 (MIRA 16:5)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for  
 Kornev, Rufanov).

(EXTREMITIES (ANATOMY))--SURGERY)

PSHENICHNIKOV, Vladimir Il'ich; BRUSENTOVA, Valentina Aleksandrovna;  
SIMONYAN, K.S., red.; BASHMAKOV, G.M., tekhn. red.

[Pathogenetic treatment of obliterating diseases of the  
extremital arteries] Patogeneticheskaya terapiya obliteriru-  
iushchikh zabolevaniy arterii konechnostei. Moskva, Medgiz,  
1963. 175 p. (MIRA 16:6)

(EXTREMITIES (ANATOMY))--BLOOD SUPPLY)  
(ARTERIES--DISEASES)

PSHENICHNIKOV, V.I. (Prof.) -- Moscow

"Pathogenetic Therapy of Obliterating Endarteritis."

Report submitted for the 27th Congress of Surgeons of the USSR, Moscow,  
23-28 May 1960.

POLENICHENKOV, V. I.

USCR

These reports to be presented at the  
2nd World Congress of Anesthesiologists,  
(WPCA), Toronto, Canada, 1-19 Sep 83.

MEYERSON, Ye. M., Director, Institute of  
Experimental Biology and Medicine, Siberian  
Department, Academy of Sciences USSR,  
Novosibirsk, and Head of the Chair of Chest  
Surgery Anesthesiology, Central Institute  
for the Advanced Training of Physicians,  
Moscow, DASH, Ye. A., Central Institute  
for the Advanced Training of Physicians,  
Moscow, OSTRONSKIY, V. Yu., GUARDIANA,  
Ye. I., and others, Central Institute  
for the Advanced Training of Physicians,  
Moscow, and PRANIKOV, V. I., Central  
Institute for the Advanced Training of  
Physicians, Moscow - "Problems in  
anesthesia during operations with arti-  
ficially produced acute occlusion of the  
superior vena cava"  
KOGONIK, V. A., Head, Laboratory of  
Experimental Physiology for the Resusci-  
tation of an Organism, Academy of Medical  
Sciences USSR, Moscow - "Treatment of  
terminal states in over-drugged or hiber-  
nated animals"  
POLENICHENKOV, V. I., Institute of Surgery  
Ye. A. V. Vishnevskiy, Academy of  
Medical Sciences USSR, Moscow - "The  
principles of local anesthesia by A. V.  
Vishnevskiy's technique"





PSHENICHNIKOV, V.I., prof. (Moskva, Fruzenskaya nab., d. 84-106, korpus 3  
kv. 148)

Fistula gastrojejunocolica. Vest.khir. 82 no.2:127-131 F '59.  
(MIRA 12:2)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo (Dir. - prof.  
A.A. Vishnevskiy) AMN SSSR.

(GASTROINTESTINAL SYSTEM, fistula  
gastrojejunocolic, etiol. & surg.,  
review (Rus))

PSHENICHNIKOV. V. I.

PSHENICHNIKOV, V.I., professor

Therapy of suppurative wounds. Trudy AMN SSSR 24 no.2:56-63 '53.  
(MLRA 7:7)

(WOUNDS AND INJURIES, complications,  
\*suppuration, ther.)

PSHENICHNIKOV, V.I., professor (Moskva)

On the appearance of six issues of "Eksperimental'naya khirurgiya."  
Vest.khir. 78 no.1:132-133 Ja '57. (MLRA 10:3)  
(SURGERY--PERIODICALS)

PSHENICHNIKOV, V.I.

Diagnosis and therapy of acute intestinal obstruction. Khirurgia,  
Moskva no.12:10-15 Dec 1953. (CJML 25:5)

1. Professor. 2. Of the Institute of Surgery imeni A. V. Vishnevskiy  
(Director -- Prof. A. A. Vishnevskiy, Corresponding Member AMS USSR),  
Academy of Medical Sciences USSR.

PSHENICHNIKOV, Vladimir Il'ich; KAZNIN, V.P., red.; MIRONOVA,  
A.M., tekhn. red.

[Repeated surgery on the stomach in peptic ulcer] Povtor-  
nye operatsii na zheludke pri iazvennoi bolezni. Moskva,  
Meditsina, 1964. 144 p. (MIRA 17:3)

L 8758-65 EWT(1) IJP(S) ESD(\*)/AEWL

ACCESSION NR: AP4044845

S/0051/64/017/003/0343/0348

AUTHOR: Pshenichnov, Ye. A.; Sokolov, N. D.

TITLE: Eigenvalues and probabilities of quantum transitions in a double asymmetrical potential well

SOURCE: Optika i spektroskopiya, v. 17, no. 3, 1964, 343-348

TOPIC TAGS: deuterated compound, quantum transition, proton transition, tunneling transition

ABSTRACT: The calculations were made for the A--D ... B bond, in analogy with the similar calculations made by R. L. Somorjai and D. F. Hornig (J. Chem. Phys., v. 36, 1980, 1962) for the A--H ... B bond. In addition to serving as a check on the characteristic features of a double asymmetrical well, the present calculations were aimed at improving the accuracy of the earlier ones, inasmuch as Somorjai and Hornig confined themselves only to the 20th order

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ACCESSION NR: AP4044845

( $N = 20$ ) of the corresponding secular equation, which is not accurate enough. The accuracy is all the more suspect because the calculations of Somorjai and Hornig also lead to the conclusion that the tunneling transition of the proton from one well to the other is more probable at ordinary temperatures than above-the-barrier transition. The authors have calculated the eigenvalues and the eigenfunctions for  $N = 30$  for 4 variants of potential wells used by Somorjai and Hornig, using the electronic computer of the Mathematics Center of IKhF AN SSSR. The somewhat lesser attenuation of the oscillation intensity following substitution of deuterium for hydrogen, compared with the usual attenuation in free molecules, is used to conclude that a second potential well exists. It is noted in conclusion that the calculations make it possible to investigate the mechanism of the transition of a proton or a deuteron from one potential well to the other, and that this investigation will be reported by the authors in the journal "Kinetika i kataliz." Orig. art. has: 3 tables, 1 figure, and 2 formulas.

Card 2/3



L 8758-65

ACCESSION NR: AP4044845

ASSOCIATION: None

SUBMITTED: 09Dec63

ENCL: 00

SUB CODE: GP

NR REF SOV: 002

OTHER: 008

Card 3/3

S/194/62/000/004/053/105  
D295/D308

AUTHORS: Skobelev, O. P., Bykhovskiy, Yu. R., Pshenichnikov,  
Yu. V. and Benkovich, Yu. L.

TITLE: The measurement of ultrasonic power

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,  
no. 4, 1962, abstract 4-5-29t (V sb. Prom. primene-  
niye ul'trazvuka. Kuybyshevsk. aviats. in-z. Kuyby-  
shev, 1961, 57-71)

TEXT: Three methods for the measurement of ultrasonic-radiation  
power or intensity are suggested and the apparatus used in the  
measurements is described. Since the radiation intensity in a  
plane wave in the absence of cavitation in the medium, is propor-  
tional to the square of the amplitude of the displacement of the  
surface of the radiator, an instrument has been devised that mea-  
sures ultrasonic intensity on the basis of measurements of the  
amplitude of the oscillations. The latter is measured by means of  
an inductive pickup placed at a determined distance from the sur-

Card 1/3

S/194/62/000/004/053/105  
D295/D308

The measurement of ...

face of the vibrator. In the presence of oscillations of the surface of the radiator, eddy currents arise in the coil of the pickup and its Q-factor varies. At the same time, the resonant frequency of the circuit (of which the pickup coil is a component part) varies, and changes the impedance of the circuit, which is determined by means of a frequency discriminator. The circuit is fed from a stabilized generator working at a frequency of 6 Mc/s. When the surface of the radiator oscillates, an alternating voltage appears at the output of the discriminator, and is recorded by a valve voltmeter. The calibration of the instrument is carried out by displacing the vibrator according to static method. The WAE-2 (IAV-2) instrument can work over a frequency range up to 50 kc/s. A thermo-acoustical method for the measurement of ultrasonic intensity is considered. The authors think that the most convenient method is the measurement of the rate of heating of a thermally non-insulated absorber at the beginning of irradiation, since in this case it is possible to calibrate the instrument by calculation. The pickup is a thermistor covered by a layer of organic-glass absorber, and a second thermistor serves for.

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ACC NR: AT6033840

SOURCE CODE: UR/3209/66/000/002/0077/0079

AUTHORS: Labetskiy, V. V. (Engineer); Pshenichnikov, Yu. V. (Engineer)

ORG: none

TITLE: Making holes with a diameter of 0.06--0.3 mm on the A209.05 precision ultrasonic machine tool

SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Akustika i ul'trazvuk, no. 2, 1966, 77-79

TOPIC TAGS: ultrasonic machine tool, ultrasonic machining, cutting tool, microscope / A209.05 ultrasonic machine tool, UIM-21 microscope

ABSTRACT: The use of the A209.05 precision ultrasonic machine tool for boring holes with diameters of 0.06--0.3 mm in hard and brittle materials is described. It is powered by a 0.5-kW ultrasonic generator. A UIM-21 microscope was installed for measuring the diameters of the holes, the bending of the tool, and the oscillations on the machine. Experiments were made with specimens of glass and ceramic. The rate of feed when boring holes with a diameter of 60--90  $\mu$  is 0.01 mm/15 sec for the first 0.1 mm of depth, and then 30 sec for each successive 0.01 mm. The tool was chrome-plated to increase strength. Orig. art. has: 2 tables and 1 diagram.

SUB CODE: 14/ SUBM DATE: none

Card 1/1

40834

S/263/62/000/014/004/006

1007/1207

AUTHOR: Skobelev, O. P., Bykhovskiy, Yu. R., Pshenichnikov, Yu. V., and Benkovich, Yu. L.  
TITLE: Measurement of ultrasonic power  
PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 32. Izmeritel'naya tekhnika, no. 14, 1962, 23-24, abstract 32.14.151. In collection Prom. primeneniye ul'trazvuka. Kuybyshevsk. aviats. in-t. Kuybyshev, 1961, 57-71)

TEXT: A device is described for measuring ultrasonic intensity by determining the oscillation amplitude of the surface of an ultrasonic vibrator. The latter consists of a valve oscillator, frequency discriminator, inductive transducer, valve voltmeter, and a feeding system with electronic voltage-stabilization. The device is calibrated in microns at static displacement and is fed with a frequency characteristic of the voltmeter amplifier up to 50 kcs. The device has the following positive features: calibration can be done independently of the properties of the medium; the high sensitivity of the frequency discriminator permits a simpler design of the device; calibration in power units is independent of frequency when ultrasonic intensity is measured according to the oscillation rate of the vibrator surface. A deficiency of the device is the necessity for precise setting of the clearance between the transducer and the vibrator surface. The paper also describes a method

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Measurement of ultrasonic...

S/263/62/000/014/004/006  
I007/I207

of measuring ultrasonic intensity by means of thermal detectors, as well as the devices therefor consisting of transducer, measuring and compensation thermistors, measuring bridge, dc amplifier, differentiating circuit, memory, valve voltmeter, and feeding unit. The device is calibrated for sound-intensity measurements according to oscillation amplitude by means of the other, abovementioned device. The method described is of particular efficiency as it permits reading to be done independently of the ambient temperature and ensures easy calibrating operations, and sound power measurements within the limits of the vibration range of the magnetostrictive resonator. The diffusion method for visualizing the ultrasonic field is examined, and quantitative evaluation of sound power at any point of the field is shown to be obtainable by photometering the film obtained. There are 11 figures and 7 references.

[Abstracter's note: Complete translation.]

Card 2/2

L 23953-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AP6009848

SOURCE CODE: UR/0413/66/000/004/0038/0038

AUTHOR: Boltyanskiy, A. A.; Pshenichnikov, Yu. V. 44  
B

ORG: none

14  
TITLE: A multicommand active control device. Class 21, No. 178883 [announced by  
Kuybyshev Aviation Institute (Kuybyshevskiy aviatsionnyy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 38

TOPIC TAGS: automatic control, grinding machine

ABSTRACT: This Author's Certificate introduces: 1. A multicommand active control device for regulating the feed on a grinder. The device contains a gauge assembly, a comparator connected to a reference voltage unit, and an activating relay system. Measurement time is reduced and electric command adjustment is provided by making the comparator in the form of a generator which sends out a control pulse when the gauge signal and the reference voltage are equal. 2. A modification of this device in which a filter is connected between the generator-comparator and the activating relay system to reduce interference.

SUB CODE: 09/

SUBM DATE: 23Jan65/

ORIG REF: 000/

OTH REF: 000

UDC: 62-523.8:621.924.1 2

L 41182-65 EWT(d)/EWP(c)/EWP(v)/T/EWP(k)/EWP(l) Pf-4  
 ACCESSION NR: AP5004677 S/0115/64/000/009/0058/0059

AUTHOR: none

TITLE: Fourth scientific and technical conference on "Cybernetics for the improvement of measurement and inspection methods"

SOURCE: Izmeritel'naya tekhnika, no. 9, 1964, 58-59

TOPIC TAGS: cybernetics, electric measurement, electric quantity instrument, digital computer, electronic equipment, electric engineering conference

ABSTRACT: The conference was held 1-4 July at the All-Union Scientific Research Institute of Metrology by the Section of Electrical Measurements of the Council on the Problem of "Scientific Instrument Making" of the State Committee on Coordination of Scientific Research Work in the USSR together with the All-Union Scientific Research Institute of Electrical Measurement Instruments and the Leningrad Regional Administration of the Scientific and Technical Division of the Instrument Making Industry. More than 400 delegates from 29 cities of the country participated.

Fifty-seven reports were heard and discussed. Reports were given by: P. V. NOVITSKIY (Leningrad)--"Definition of the Concept of Informational Error in Measurement and its Importance in Practical Use" and "On the Problem of the Average Informational Criterion of Accuracy Throughout the Entire Scale of an Instrument"; Ya. A.

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L 41182-65

ACCESSION NR: AP5004677

17

KUPERSHNIOT (Moscow)--"On Determination of the Criteria of Accuracy for Measurement Devices"; S. M. MANDEL'SHTAM (Leningrad)--report on a new criterion of accuracy of measurement instruments; P. F. PARSHIN (Leningrad)--report on optimization when using Fourier transforms on electronic digital computers; S. P. DMITRIYEV, G. Ya. DOLGINTSEVA and A. A. IGNATOV (Leningrad)--proposal of a new method for solving problems of optimum filtering for non-stationary random signals and interference; I. B. CHELPAKOV--"Calculation of the Dynamic Characteristics of an Optimum Complex Two-Channel System which Uses Signals from a Position Meter and from a Speed Meter"; R. A. POLUEKTOV (Leningrad)--"Optimum Periodic Correction in the Measurement of Continuous Signals"; S. P. ADAMOVICH (Moscow)--"Analysis and Construction of Devices for Correction of Non-linearity and Scaling for Unitary Codes; G. V. GORBLOVA (Taganrog)--"A Method for Statistical Optimization in Graduating the Scales of Electrical Measuring Instruments"; N. A. ZEMEL'MAN (Moscow)--"Analog-Digital Voltage Converter with Automatic Error Correction"; B. N. MALINOVSKIY, V. S. KALENCHUK and I. A. YANOVICH (Kiev)--"Automatic Monitoring of the Parameters of the Electrical Signals of Complex Radio and Electronic Equipment"; V. P. PEROV (Moscow)--"Operational Cybernetics as an Independent Scientific Specialization"; Ye. N. GIL'BO (Leningrad)--"On the Problem of Effective Non-linear Scales"; A. I. MARKELOV (Moscow)--"Devices for Preliminary Processing of the Results of Measurements Presented in the Form of

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L 41182-65

ACCESSION NR: AP5004677

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Graphic Recordings For Subsequent Introduction of the Information into Universal Digital Computers"; O. M. MOGILEVER and S. S. SOKOLOV (Leningrad)--"On a Method for Reducing Excess Information"; T. V. NIKOLAYEVA (Leningrad)--"A Device for Temporal Discretization of Continuous Signals"; A. A. LYOVIN and M. L. BULIS (Moscow)--"Optimization of the Transmission of Telemetric Information as a Means for Raising the Efficiency and Eliminating Interference"; D. E. GUKOVSKIY (Moscow)--"On a Statistic Approach to the Detection of Events in Automatic Inspection"; M. I. LANIN (Leningrad)--"Method for Calculating the Holding Time of Communications in a Centralized Inspection System or Constant Servicing Time"; O. N. BRONSHTEYN, A. L. RAYKIN and V. V. RYKOV (Moscow)--"On a Single-Line Mass Service System with Losses"; V. M. SHLYANDIN (Penza)--report on circuit designs for direct compensation electrical digital measuring instruments; A. N. KOMOV (Novocherkassk)--report on a new method for compensation of digital bridges; M. N. GLAZOV (Leningrad)--report on the problem of voltage-to-angular rotation conversion; V. S. GUTNIKOV (Leningrad)--"Methods for Construction of Frequency Capacitance Pickups with a Linear Scale"; R. Ya. SYROPYATOVA and R. R. KHARCHENKO (Moscow)--report on the determination of the amplitude-frequency and phase characteristics of PFM and PWM modulators; Ye. I. TERNYAKOV (Novocherkassk)--"The Phototransistor as a Switch for Electrical Measurement Purposes"; N. V. MALYGINA (Leningrad)--a report on ways for making universal equipment for measurement of current, voltage and power; P. P. ORNATSKIY and V. I. ZOZULYA (Kiev)--reports on the construction of static voltmeters, wattmeters and

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L 41182-65

ACCESSION No: AP5004677

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phase meters; A. V. TRIKHANOV, I. G. SMYSHLYAYEV, N. I. SABLIN, V. M. RAZIN and V. A. GORBUNOV (Tomsk)--report on a device for automatic processing of the measurements of vibration amplitude of pneumatic hammers; L. K. RUKINA and V. G. KNORRING (Leningrad)--report on the development of a digital compensator for measuring pressure, force, etc.; N. B. DADUKINA (Leningrad)--report on a method for constructing frequency pickups for gas analysis; Yo. M. KARPOV, V. A. BRAZHNIKOV and B. Ya. LIKHITSINDER (Kuybyshev)--reports on analysis and recording of boring speeds; Yu. V. PSHENICHNIKOV (Kuybyshev)--"A High Speed Voltage-to-Digital Code Converter for ac Pickups"; G. P. VIKHROV and V. K. ISAYEV (Vilna)--"A Highly Accurate Digital Peak-to-Peak Voltmeter"; and S. M. PERSIN (Leningrad)--"A Low Level Analog-Digital Voltage Converter."

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EE, EC

NO REF SOV: 000

OTHER: 000

JPRS

*me*  
Card 4/4

24.1360

38168

S/058/62/000/004/069/160

A058/A101

AUTHORS: Skobelev, O. P., Bykhovskiy, Yu. R., Pshenichnikov, Yu. V., Benkovich, Yu. L.

TITLE: Measurement of ultrasonic power

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 36, abstract 4G300  
(V sb. "Prom. primeneniye ul'trazvuka, Kuybyshevsk. aviats. in-t".  
Kuybyshev, 1961, 57-71)

TEXT: For measuring ultrasonic power on the basis of the oscillation amplitude of the surface of a vibrator, the authors developed an instrument containing a HF-inductive pickup in which the variation of the Q-factor with oscillations is used. Graduation is carried out in static displacements and is maintained up to 50 kc. The power was also measured by means of an ultrasonic device with a thermal detector based on the measurement method involving the heating rate of the absorber at the start of irradiation. The authors made a time-constant selection for the differentiating circuit of this instrument. For visualization of ultrasonic fields and for quantitative evaluation of the power at any point, the method of film-photometry was used.

[Abstracter's note: Complete translation]

Card 1/1

ACC NR: AP6021810

SOURCE CODE: UR/0413/66/000/012/0089/0009

INVENTOR: Boltyanskiy, A. A.; Pshenichnikov, Yu. V.

ORG: None

TITLE: Measurement attachment to fit on an automatic machine for multiple-range sorting according to deviation of some parameter from standard. Class 42, No. 182898 [announced by the Kuybyshev Aviation Institute (Kuybyshevskiy aviatsionnyy institut)]

SOURCE: Izobretniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 89

TOPIC TAGS: analog digital converter, digital analog converter, sorter, parameter

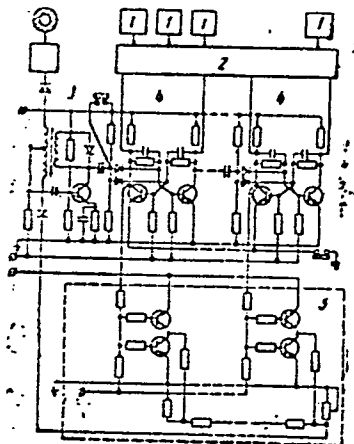
ABSTRACT: This Author's Certificate introduces a measurement attachment to fit on an automatic machine for multiple-range sorting according to deviation of some parameter from standard. The device contains an industrial-frequency induction transducer for converting this deviation to AC voltage. Measurement accuracy is improved and sorting speed is increased by equipping the instrument with magnets, a decoder and a converter with feedback which includes a device for comparing AC input voltage of industrial frequency with the output voltage of the converter. The converter also incorporates a generator null indicator connected to the output of the comparator and generating pulses if the amplitude of the AC input voltage in the comparator is greater than the output voltage of the converter. Counters convert the pulses from

UDC: 531.7:621.3.078.3

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ACC NR: AP6021810

output of the generator null indicator to binary code. A controlled voltage divider converts this binary code to DC voltage which is fed to the comparator for checking against the AC input voltage. The sorting command is given by the magnets which are connected by the decoder to the converter counters.



1—magnets; 2—decoder; 3—generator null indicator; 4—counters; 5—voltage divider

SUB CODE: 09, 13/ SUBM DATE: 31May65

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PSHENI<sup>1</sup>CHNIKOVA A. A. Leningrad State Exp. Inst. of Eye Dis. Navlindeniya  
nad gomonnnoi gemianopsiei pri gibertonitcheskoi boliezm Homonymous hemian-  
opsia in hypertension Vest. Oftal. 1950, 29/3 (28-33) Tables 3 Illus. 4

In the period 1945-47, 17 cases of homonymous hemianopsia were observed among a number of cases of hypertension. In 15 of these the central neuron or the higher visual centres were affected and in 2 there was an injury of the tract. The majority of the patients were between 50 and 60 years of age, and had high systolic and diastolic blood pressures. In 11 cases the fundus was normal; in the others changes in the retina were found. The analysis of the visual fields showed that there was complete homonymous hemianopsia in 10 cases. In 11 hemianopsia was the only neurological sign in 4 it was combined with aphasia, alexia, agraphia and hemiparesis. Hemianopsia takes various forms in hypertensive conditions. Repeated visual field tests showed that the hemianopsia was stationary in 7 and that the visual fields improved in 4 cases. Since the number of patients with the visual field defects is small, no definite conclusions can be drawn as to the character of the hemianopsia and its frequency in hypertension.

Sitchevska - New York (XII, 6, 8)

So: Neurology & Psychiatry Section VIII, Vol. 4, No. 1 - 6

PSHENICHNIKOVA, A.S.; PINKUS, B.B.

Treatment of glandulo-muscular hyperplasias of the cervix uteri  
with diathermocoagulation and with diathermo punctures. Akush. gin.  
no.6:31-33 Nov-Dec 1953. (CML 25:5)

1. Of Omsk Railroad Clinical Hospital.



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Use of biogenic stimuli in the treatment of inflammatory gynecologic diseases. Akush. gin., Moskva no.6:28-30 Nov-Dec 1951. (CML 21:2)

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Problem of the course of pregnancy and labor following diathermocoagulation in cervical erosion. Akush. gin. no.5:34-36 Sept-Oct 1953.  
(CLML 25:4)

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GILLERSON, A.B., prof. doktor med. nauk; PSHENICHNIKOVA, A.S.

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of the cervix uteri. Akush. i gin. no.1:64-67 '63.

(MIRA 17:6)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. A.B.  
Gillerson) Omskogo meditsinskogo instituta imeni M.I. Kalinina.

PSHENICHNIKOVA, A.S.

Results of the treatment of trichomonal colpitis with phytoncides.  
Akush. gin.no. 1:71-76 Jan-Feb 1953. (GIML 24:2)

1. Of the Department of Obstetrics and Gynecology (Head -- Prof.  
A. B. Gillerson) of the Pediatric Faculty of Omsk Medical Institute  
imeni M. I. Kalinin.

PSHENICHNIKOVA, A.S.

Prevention of malignant tumors of the female genitalia. Sov.med.  
23 no.11:152-155 N '59. (MIRA 13:3)

1. Iz akushersko-ginekologicheskogo ob'yedineniya Omskoy dorozhnoy  
klinicheskoy bol'nitsy (nachal'nik N.M. Kostyuchenko, nauchnyy rukovoditel' - prof. A.B. Gillerson).  
(GENITALIA FEMALE neoplasms)

POHNIKHNIKOVA, A. S.

Phytoncides

Results of the treatment of trichomonal colpitis with phytoncides. Akush. i gin.  
No. 1, 1953.

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Radical treatment of precancerous conditions of the cervix uteri;  
immediate and late results of diathermocoagulation of gynecological  
patients. Akush. i gin. 36 no. 3: 73-77 My-Je '60. (MIRA 13:12)  
(UTERUS—TUMORS) (ELECTROSURGERY)

GILLERSON, A.B.; PSHENICHNIKOVA, A.S.

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invasive forms of cancer of the cervix uteri. Akush. i gin.  
36 no.3:50-54 My-Je '60. (MIRA 13:12)  
(UTERUS---CANCER)



PSHENICHNIKOVA, A.S.; PINKUS, B.B.

Treatment of glandulo-muscular hyperplasias of the cervix uteri  
with diathermocoagulation and with diathermopunctures. Akush.i  
gin. no.6:31-33 N-D '53. (MLRA 7:1)

1. Iz Omskoy klinicheskoy zheleznodorozhnoy bol'nitsy.  
(Uterus--Diseases) (Diathermy)

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Phytoncide therapy of trichomonal colpitis. Novosti med. no.34:10-15 '53.  
(MLRA 6:9)

1. Klinicheskaya bol'nitsa, st.Omsk. (Phytoncides) (Vagina--Diseases)

*PSHENICHNIKOVA, L. B.*

SOV/31-59-15-511A

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 15, p 325 (USSR)

AUTHORS: Savitskiy, S. Ye., Ageyenkova, A.K., Orpel', M.A., Pshenichnikova, L.B.

TITLE: The Effect of Strontium Oxide on the Chemical Resistance of Sheet Glasses

PERIODICAL: Dzul. tekhn.-ekon. inform. Sovnarkhoz BSSR. 1956, Nr 6, pp 21 - 23

SUMMARY: A total of 7 glasses have been synthesized on the base of the composition (in %):  $\text{SiO}_2$ -72,  $\text{Al}_2\text{O}_3$ -2,  $\text{CaO}$ -7,  $\text{MgO}$ -3,  $\text{Na}_2\text{O}$ -15, which proved in production practice to be the best composition for sheet glass. The effect of the substitution of  $\text{CaO}$  by  $\text{SrO}$ , and  $\text{MgO}$  by  $\text{SrO}$  on the chemical resistance of the glasses has been studied;  $\text{SrO}$  is introduced into the composition of the glasses instead of the mentioned oxides in equimolecular quantities. Raw materials: Loyevskiy sand,  $\text{Al}_2\text{O}_3$ ,  $\text{CaCO}_3$ ,  $\text{MgCO}_3$ ,  $\text{SiCO}_3$ ,  $\text{Na}_2\text{CO}_3$ . The chemical resistance was determined by the action of acid-molten solutions of  $\text{H}_2\text{CO}_3$ , alkali,  $\text{HCl}$  and  $\text{H}_2\text{SO}_4$  using the powder method. It has been established that  $\text{SrO}$  introduced into the composition of the glass at the expense of  $\text{CaO}$  and  $\text{MgO}$  (at the substitution it is recommended to introduce 1 - 1.5%) positively affects the chemical

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The Effect of Strontium Oxide on the Chemical Resistance of Sheet Glasses

resistance to HCl, solutions of alkalis and  $\text{Na}_2\text{CO}_3$ . It has been shown that in the case of the action of alkali solutions or  $\text{Na}_2\text{CO}_3$  on the glass the principal role in the process of glass destruction play the  $\text{OH}^-$  ions.

I. Mikheylova ✓

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